OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG222267

CHRNA10 (NM_020402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA10 (NM_020402) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHRNA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG222267 representing NM_020402
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCTCCGGAGCCACCACCTCAGCCTGGGCCTTCTGCTTCTGTTTCTACTCCCTGCAGAGTGCCTGG
GAGCTGAGGGCCGGCTGGCTCTCAAGCTGTTCCGTGACCTCTTTGCCAACTACACAAGTGCCCTGAGACC
TGTGGCAGACACAGACCAGACTCTGAATGTGACCCTGGAGGTGACACTGTCCCAGATCATCGACATGGAT
GAACGGAACCAGGTGCTGACCCTGTATCTGTGGATACGGCAGGAGTGGACAGATGCCTACCTACGATGGG
ACCCCAATGCCTATGGTGGCCTGGATGCCATCCGCATCCCCAGCAGTCTTGTGTGGCGGCCAGACATCGT
ACTCTATAACAAAGCCGACGCGCAGCCTCCAGGTTCCGCCAGCACCAACGTGGTCCTGCGCCACGATGGC
GCCGTGCGCTGGGACGCGCCGGCCATCACGCGCAGCTCGTGCCGCGTGGATGTAGCAGCCTTCCCGTTCG
ACGCCCAGCACTGCGGCCTGACGTTCGGCTCCTGGACTCACGGCGGGCACCAACTGGATGTGCGGCCGCG
CGGCGCTGCAGCCAGCCTGGCGGACTTCGTGGAGAACGTGGAGTGGCGCGTGCTGGGCATGCCGGCGCGG
CGGCGCGTGCTCACCTACGGCTGCTGCTCCGAGCCCTACCCCGACGTCACCTTCACGCTGCTGCTGCGCC
GCCGCGCCGCCGCCTACGTGTGCAACCTGCTGCTGCCCTGCGTGCTCATCTCGCTGCTTGCGCCGCTCGC
CTTCCACCTGCCTGCCGACTCAGGCGAGAAGGTGTCGCTGGGCGTCACCGTGCTGCTGGCGCTCACCGTC
TTCCAGTTGCTGCTGGCCGAGAGCATGCCACCGGCCGAGAGCGTGCCGCTCATCGGGAAGTACTACATGG
CCACTATGACCATGGTCACATTCTCAACAGCACTCACCATCCTTATCATGAACCTGCATTACTGTGGTCC
CAGTGTCCGCCCAGTGCCAGCCTGGGCTAGGGCCCTCCTGCTGGGACACCTGGCACGGGGCCTGTGCGTG
CGGGAAAGAGGGGAGCCCTGTGGGCAGTCCAGGCCACCTGAGTTATCTCCTAGCCCCCAGTCGCCTGAAG
GAGGGGCTGGCCCCCCAGCGGGCCCTTGCCACGAGCCACGATGTCTGTGCCGCCAGGAAGCCCTACTGCA
CCACGTAGCCACCATTGCCAATACCTTCCGCAGCCACCGAGCTGCCCAGCGCTGCCATGAGGACTGGAAG
CGCCTGGCCCGTGTGATGGACCGCTTCTTCCTGGCCATCTTCTTCTCCATGGCCCTGGTCATGAGCCTCC
TGGTGCTGGTGCAGGCCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

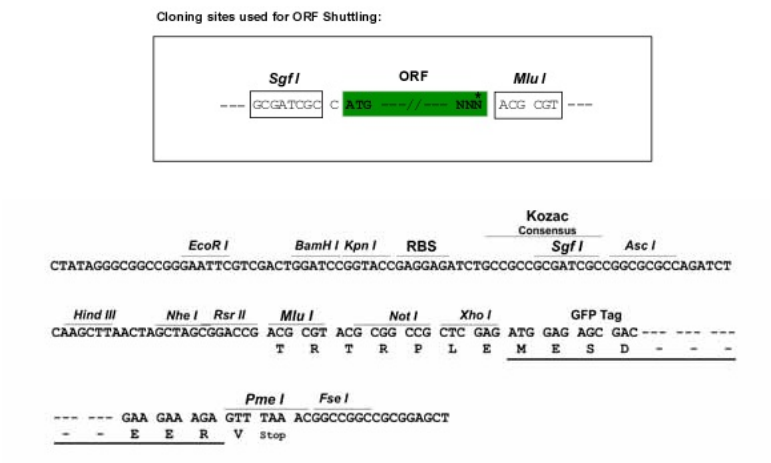
>RG222267 representing NM_020402
Red=Cloning site Green=Tags(s)

MGLRSHHLSLGLLLLFLLPAECLGAEGRLALKLFRDLFANYTSALRPVADTDQTLNVTLEVTLSQIIDMD
ERNQVLTLYLWIRQEWTDAYLRWDPNAYGGLDAIRIPSSLVWRPDIVLYNKADAQPPGSASTNVVLRHDG
AVRWDAPAITRSSCRVDVAAFPFDAQHCGLTFGSWTHGGHQLDVRPRGAAASLADFVENVEWRVLGMPAR
RRVLTYGCCSEPYPDVTFTLLLRRRAAAYVCNLLLPCVLISLLAPLAFHLPADSGEKVSLGVTVLLALTV
FQLLLAESMPPAESVPLIGKYYMATMTMVTFSTALTILIMNLHYCGPSVRPVPAWARALLLGHLARGLCV
RERGEPCGQSRPPELSPSPQSPEGGAGPPAGPCHEPRCLCRQEALLHHVATIANTFRSHRAAQRCHEDWK
RLARVMDRFFLAIFFSMALVMSLLVLVQAL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020402

ORF Size: 1350 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_020402.4

RefSeq Size: 1962 bp

RefSeq ORF: 1353 bp

Locus ID: 57053

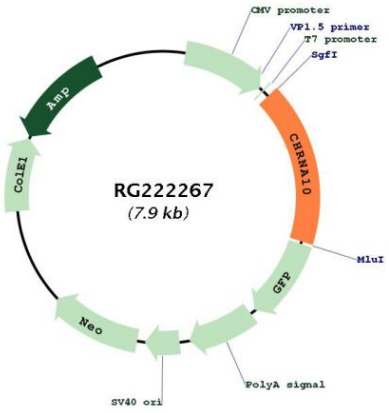
UniProt ID: Q9GZZ6

Cytogenetics: 11p15.4

Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Gene Summary: Ionotropic receptor with a probable role in the modulation of auditory stimuli. Agonist binding may induce an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. The channel is permeable to a range of divalent cations including calcium, the influx of which may activate a potassium current which hyperpolarizes the cell membrane. In the ear, this may lead to a reduction in basilar membrane motion, altering the activity of auditory nerve fibers and reducing the range of dynamic hearing. This may protect against acoustic trauma. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG222267